

Claims

1. A connection device for connecting an electrical device, the connection device comprising:
a dielectric housing, the dielectric housing including a slot for plugging in the electrical device, the slot defining a top surface and a bottom surface;
a first bulge portion and a second bulge portion extending downward from the top surface of the slot; and
a third bulge portion and a fourth bulge portion extending upward from the bottom surface of the slot;
wherein the first bulge portion corresponds to the third bulge portion for clamping the electrical device, and wherein the second bulge portion corresponds to the fourth bulge portion for electrically coupling to the electrical device.
2. The connection device of claim 1, wherein the distance between the first bulge portion and the third bulge portion is larger than the distance between the second bulge portion and the fourth bulge portion.
3. The connection device of claim 1, wherein the first bulge portion further comprises a first surface for clamping the electrical device.
4. The connection device of claim 1, wherein the third bulge portion further comprises a second surface for clamping the electrical device.
5. The connection device of claim 1, wherein the second bulge portion further comprises a first conductive layer for electrically coupling to the electrical device.

6. The connection device of claim 1, wherein the fourth bulge portion further comprises a second conductive layer for electrically coupling to the electrical device.
7. The connection device of claim 1, wherein the second bulge portion further comprises a first sloping surface for guiding the electrical device.
8. The connection device of claim 7, wherein a first angle between 30 and 60 degrees is formed between the first sloping surface and the surface of the electrical device.
9. The connection device of claim 1, wherein the fourth bulge portion further comprises a second sloping surface for guiding the electrical device.
10. The connection device of claim 9, wherein a second angle between 30 and 60 degrees is formed between the second sloping surface and the surface of the electrical device.
11. The connection device of claim 1, wherein the electrical device includes a flat flex cable (FFC).
12. The connection device of claim 1, wherein the electrical device includes a cable.
13. A connection device for connecting a flat flex cable, the connection device comprising:
a dielectric housing, the dielectric housing including a slot for the flat flex cable
plugging in, the slot defining a top surface and a bottom surface;

a first bulge portion and a second bulge portion downward extending from the top surface of the slot; and

a third bulge portion and a fourth bulge portion upward extending from the bottom surface of the slot;

wherein the first bulge portion corresponds to the third bulge portion for clamping the flat flex cable, and wherein the second bulge portion corresponds to the fourth bulge portion for electrically coupling to the flat flex cable.

14. The connection device of claim 13, wherein the distance between the first bulge portion and the third bulge portion is larger than the distance between the second bulge portion and the fourth bulge portion.
15. The connection device of claim 13, wherein the first bulge portion further comprises a first surface for clamping the flat flex cable.
16. The connection device of claim 13, wherein the third bulge portion further comprises a second surface for clamping the flat flex cable.
17. The connection device of claim 13, wherein the second bulge portion further comprises a first conductive layer for electrically coupling to the flat flex cable.
18. The connection device of claim 13, wherein the forth bulge portion further comprises a second conductive layer for electrically coupling to the flat flex cable.

19. The connection device of claim 13, wherein the second bulge portion further comprises a first sloping surface for guiding the flat flex cable.
20. The connection device of claim 19, wherein a first angle between 30 and 60 degrees is formed between the first sloping surface and the surface of the flat flex cable.
21. The connection device of claim 13, wherein the fourth bulge portion further comprises a second sloping surface for guiding the flat flex cable.
22. The connection device of claim 21, wherein a second angle between 30 and 60 degrees is formed between the second sloping surface and the surface of the flat flex cable.